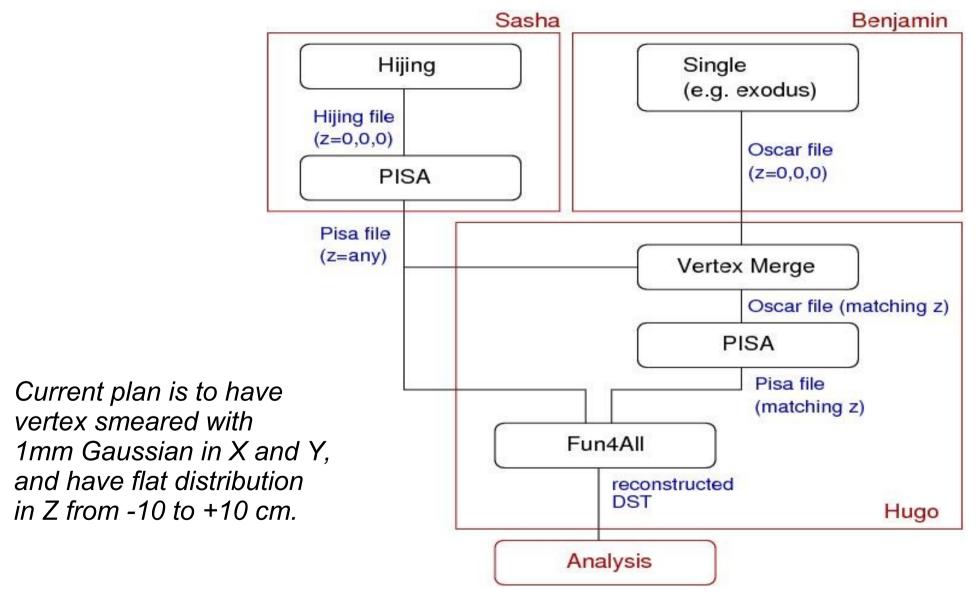
Blind analysis challenge for VTX/FVTX

My goal today is to ask for suggestions (how to make it more useful) and attract volunteers



Signal

FVTX group plans to have single muon files, with muons coming from 3 different sources:

- charm/bottom decays (HERWIG)
- Direct thermal muons (EXODUS)
- Muons from Kaon decays

Amount of muons from each group will be unknown to the analyzers. Test signal files already exist.

For VTX I would suggest:

- electrons from D mesons (PYTHIA?)
- electrons from B mesons
- random single electrons and/or conversions

We need a volunteer to do it (Matthew Lockner, ISU) Generate OSCAR files with at least one electron in Central Arm acceptance with (0,0,0) vertex.

Current status

- Testing the procedure. Simulation code ready.
- Generated 10k minimum bias Hijing events
- Processed ~2k events through PISA
 (this is the most CPU consuming part few minutes per event)
- Hugo will test merging procedure with muon signal files.
- The goal is to make sure that everything works properly some time next week.
- Suggestions for improving the procedure are welcome!
- BAC meetings every week on Wednesday at 10:15am BNL time.
 - Axel, Melynda, myself, Hugo, Tony

Some other thoughts (not mine)

- With current approach the challenge will be done by perfectly calibrated detector.
 - introduce misalignments? (easy for VTX)
 - introduce dead areas? (easy for VTX)
 - something else? (suggestions are welcome).
- 'Calibrate' software first by analyzing data with known amount of signal, and then do a blind analysis.